

- 1 1. A method of using a smart card, comprising:  
2 issuing a smart card to a user;  
3 issuing manual authentication information to the user;  
4 authenticating the user and the smart card using the manual authentication  
5 information;  
6 obtaining a public key from the smart card; and  
7 issuing a digital certificate using the public key to the smart card to activate  
8 the smart card.  
9  
10 2. The method according to claim 1, wherein the manual authentication  
11 information comprises a user ID and a password.  
12  
13 3. The method according to claim 1, further comprising obtaining the digital  
14 certificate from a certificate authority.  
15  
16 4. The method according to claim 1, wherein the authenticating further  
17 comprises connecting the smart card to a workstation.  
18  
19 5. The method according to claim 1, further comprising storing the digital  
20 certificate in at least one of the smart card and a workstation.  
21  
22 6. The method according to claim 1, further comprising:  
23 connecting the smart card to a workstation;  
24 initiating a login request to a server;  
25 authenticating the smart card using the digital certificate; and  
26 if authenticated, permitting a login to a computer resource.  
27  
28 7. The method according to claim 6, wherein the authenticating further  
29 comprises connecting the smart card to a workstation, and removing the smart  
30 card from the workstation after the authenticating.



1 9. A method of using a smart card, comprising:  
2 receiving a smart card;  
3 receiving manual authentication information;  
4 authenticating the smart card using the manual authentication information;  
5 generating a public key using the smart card;  
6 sending the public key to an administration server; and  
7 receiving a digital certificate generated using the public key to activate the  
8 smart card.

9  
10 10. The method according to claim 9, wherein the manual authentication  
11 information comprises a user ID and a password.

12  
13 11. The method according to claim 9, further comprising receiving the digital  
14 certificate from a certificate authority.

15  
16 12. The method according to claim 9, wherein the authenticating further  
17 comprises connecting the smart card to a workstation.

18  
19 13. The method according to claim 9, further comprising storing the digital  
20 certificate in at least one of the smart card and a workstation.

21  
22 14. The method according to claim 9, further comprising:  
23 connecting the smart card to a workstation;  
24 sending a login request to a server;  
25 authenticating the digital certificate against a certificate revocation list; and  
26 if authenticated, permitting a login to a computer resource.

27  
28 15. The method according to claim 14, wherein the authenticating further  
29 comprises connecting the smart card to a workstation, and removing the smart  
30 card from the workstation after sending the digital certificate.

- 1 16. The method according to claim 9, wherein the authenticating further  
2 comprises determining that the digital certificate has not been revoked.

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- 1 17. A method of using a smart card, comprising:  
2 connecting the smart card to a workstation;  
3 sending a login request to a server;  
4 authenticating a digital certificate for the smart card; and  
5 if authenticated, permitting a login to a computer resource.  
6
- 7 18. The method according to claim 17, wherein the digital certificate is obtained  
8 by obtaining a public key from the smart card, and receiving the digital certificate  
9 from a certificate authority.  
10
- 11 19. The method according to claim 17, further comprising obtaining the digital  
12 certificate from a certificate authority.  
13
- 14 20. The method according to claim 17, wherein the authenticating further  
15 comprises connecting the smart card to a workstation, and the removing the smart  
16 card from the workstation after authenticating.  
17
- 18 21. The method according to claim 17, further comprising storing the digital  
19 certificate in at least one of the smart card and a workstation.  
20
- 21 22. The method according to claim 17, wherein the authenticating further  
22 comprises determining that the digital certificate has not been revoked.

1 23. A method of using a smart card, comprising:  
2 issuing a smart card to a user;  
3 issuing manual authentication information to the user, the manual  
4 authentication information comprising a user ID and a password;  
5 on first use of the smart card:  
6 connecting the smart card to a workstation;  
7 authenticating the user and the smart card using the manual  
8 authentication information;  
9 obtaining a public key from the smart card; and  
10 sending a digital certificate generated using the public key from a  
11 certificate authority to the smart card to activate the smart card.  
12 on a subsequent use of the smart card:  
13 connecting the smart card to a workstation;  
14 sending a login request to a server;  
15 authenticating the digital certificate against a certificate revocation list  
16 to determine that the digital certificate has not been revoked; and  
17 if authenticated, permitting a login to a computer resource.  
18

19 24. The method according to claim 23, wherein the authenticating further  
20 comprises connecting the smart card to a workstation, and the removing the smart  
21 card from the workstation after authenticating.  
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23 25. The method according to claim 23, further comprising storing the digital  
24 certificate in at least one of the smart card and a workstation.  
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